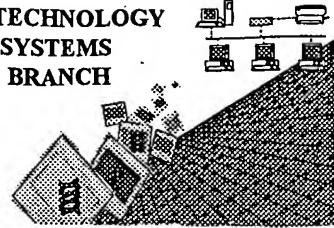


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/089,473
Source: PCT/10
Date Processed by STIC: 4/17/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/089,473

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences
 (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 Skipped Sequences
 (NEW RULES) Sequence(s) _____ missing. If Intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 Use of <220>
 → Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/089,473

DATE: 04/17/2002
TIME: 12:19:13

Input Set : A:\PTOVK.txt
Output Set: N:\CRF3\04172002\J089473.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:0 M:201 W: Mandatory field data missing, FILE REFERENCE
L:12 M:283 W: Missing Blank Line separator, <210> field identifier
L:19 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
M:332 Repeated in SeqNo=1
L:31 M:252 E: No. of Seq. differs, <211>LENGTH:Input:71 Found:73 SEQ:1
L:58 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:58 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:106 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
L:119 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:128 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9
L:138 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10
M:332 Repeated in SeqNo=10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/089,473

DATE: 04/17/2002
TIME: 12:19:11

Input Set : A:\PTOVK.txt
Output Set: N:\CRF3\04172002\J089473.raw

```

117 <400> SEQUENCE: 8
118 Gly Arg Gly Glu Thr Pro
E--> 119 1 misaligned
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 12
123 <212> TYPE: PRT
124 <213> ORGANISM: Agkistrodon saxatilis emelianov
126 <400> SEQUENCE: 9
127 Gly Glu Glu Cys Asp Cys Gly Ala Pro Ala Asn Pro
E--> 128 1 . 5 10 misaligned
131 <210> SEQ ID NO: 10
132 <211> LENGTH: 73
133 <212> TYPE: PRT
134 <213> ORGANISM: Agkistrodon halys brevicaudus
136 <400> SEQUENCE: 10
137 Glu Ala Gly Glu Cys Asp Cys Gly Ser Pro Gly Asn Pro Cys Cys
E--> 138 1 5 10 15 misaligned
140 Asp Ala Ala Thr Cys Lys Leu Arg Gln Gly Ala Gln Cys Ala Glu Gl
E--> 141 20 25 30
143 Leu Cys Cys Asp Gln Cys Arg Phe Met Lys Glu Gly Thr Ile Cys Arg
E--> 144 35 40 45
146 Arg Ala Arg Gly Asp Asp Leu Asp Asp Tyr Cys Asn Gly Ile Ser Ala
E--> 147 50 55 60
149 Gly Cys Pro Arg Asn Pro Phe His Ala
E--> 150 65 70
E--> 154 1

```

delete

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

PNT



PCT/10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/089,473

DATE: 04/17/2002
TIME: 12:19:11

Input Set : A:\PTOVK.txt
Output Set: N:\CRF3\04172002\J089473.raw

JN 1-2
Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: CHUNG, Kwang-Hoe
 4 KIM, Doo-Sik
 6 <120> TITLE OF INVENTION: Novel Protein Derived from Agkistrodon saxatilis emelianov
 7 and Process for Preparing the Same
 8 <140> CURRENT APPLICATION NUMBER: US/10/089,473
 9 <141> CURRENT FILING DATE: 2002-03-26
 0 <130> FILE REFERENCE:
 9 <160> NUMBER OF SEQ ID NOS: 10
 11 <170> SOFTWARE: KOPATIN 1.5

ERRORED SEQUENCES

W-> 12 <210> SEQ ID NO: 1
 13 <211> LENGTH: 71 73 shown
 14 <212> TYPE: PRT
 15 <213> ORGANISM: Agkistrodon saxatilis emelianov
 17 <400> SEQUENCE: 1
 18 Glu Ala Gly Glu Cys Asp Cys Gly Ala Pro Ala Asn Pro Cys Cys
 E--> 19 1 5 10 15 misaligned amino acid numbers
 21 Asp Ala Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Glu Gly
 E--> 22 20 25 30
 24 Leu Cys Cys Asp Gln Cys Arg Phe Met Lys Glu Gly Thr Ile Cys Arg
 E--> 25 35 40 45
 27 Met Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys Asn Gly Ile Ser Ala
 E--> 28 50 55 60
 30 Gly Cys Pro Arg Asn Pro Phe His Ala
 E--> 31 65 70
 96 <210> SEQ ID NO: 7
 97 <211> LENGTH: 6
 98 <212> TYPE: PRT
 99 <213> ORGANISM: Artificial Sequence
 101 <220> FEATURE:
 102 <223> OTHER INFORMATION: oligopeptide insufficient response - give source / genetic material
 104 <400> SEQUENCE: 7
 105 Gly Arg Gly Asp Ser Pro
 E--> 106 1 5 misaligned number
 109 <210> SEQ ID NO: 8
 110 <211> LENGTH: 6
 111 <212> TYPE: PRT
 112 <213> ORGANISM: Artificial Sequence
 114 <220> FEATURE:
 115 <223> OTHER INFORMATION: oligopeptide same error